

	Application No.	Applicant(s)	
	09/772,498	WOLF ET AL.	-
Notice of Allowability	Examiner	Art Unit	
	Harry Vartanian	2634	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not include n will be mailed in due o	d course. <b>THIS</b>
1. This communication is responsive to 6/21/2004.			
2. ☑ The allowed claim(s) is/are <u>1-14</u> .			
3. X The drawings filed on 25 June 2001 are accepted by the E	xaminer.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No		on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet, Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi	ngs in the front (not the d).	back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. N AL MATERIAL.	ote the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application (PTO	-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary	(PTO-413),	,
3. ⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 08), 7. ⊠ Examiner's Amendr	te ment/Comment	
Paper No./Mail Date <u>1/29/2001</u>	_		
4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Stateme	ent of Reasons for Allov	wance
of Biological Material	9.		

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jay Cantor(Reg #19,906) on 01/6/2005.

The application has been amended as follows:

In Claim 1, Lines 3-4 please change the following:

executing said adaptive abort criterion utilizing division without said division by a variable by manipulating an abort criterion equation by replacing division by a variable with multiplication by a variable thereby simplifying hardware implementation.

In Claim 4, Lines 6-7 please change the following:

comparison algorithm being executed utilizing division without said division by a variable by manipulating an abort criterion equation by replacing division by a variable with multiplication by a variable thereby simplifying hardware implementation; and

In Claim 8, Lines 4-5 please change the following:

executing a comparison algorithm by manipulating an abort criterion equation by replacing division by a variable with multiplication by a variable thereby simplifying hardware implementation;

generating a quality attribute based on the estimates with division without said division by a variable;

In Claim 10, Line 2 please change the following:

implemented with division without said division by a variable.

In Claim 11, Line 9-10 please change the following:

wherein the steps (b), (c), (d), and (e) are implemented with division without said division by a variable.

In Claim 13, Line 10 please change the following:

implemented with division without said division by a variable.

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## Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: the prior art shows that turbo decoding is usually executed by taking the difference between a current estimate of a symbol and a prior estimate then comparing that value to a threshold value. Other methods were shown wherein a ratio may be compared to a threshold during each iteration of the turbo decoding process. However, the prior art failed to teach transforming or manipulating an equation of the ratio of the mean and variance as shown in the applicants specification, to exclude the division operation in order to simplify hardware implementation of the algorithm.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry Vartanian whose telephone number is 571.272.3048. The examiner can normally be reached on 10:00-6:30 Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571.272.3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harry Vartanian Examiner Art Unit 2634

HV

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